

### **ABSTRACT OF THE DISCLOSURE**

In a method for manufacturing a gradient coil system for a magnetic resonance apparatus, the conductor arrangement of the gradient coil system  
5 is produced by successively applying respective layers of metal powder sinter material on a workpiece platform, and successively sintering the respective layers by the application of radiation, such as laser radiation, to the individual layers, and the conductor arrangement is assembled with other components to produce the gradient coil system. A gradient coil system manufactured in  
10 accordance with this method includes a number of assembled components, including an electrical conductor arrangement, with the electrical conductor arrangement having conductors formed by radiation-sintered metal powder material.

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